

IN THE SPECIFICATION:

Please replace the specification with the following substitute specification herein (version with markings to changes made is included). The substitute specification includes no new matter.

IN THE CLAIMS:

Please cancel claims 10 and 25 without prejudice.

Please amend claims 1-3, 8, 11, 13-17, 20-24, 26, and 28-30 to read as follows:

Sub B1 1. (Amended) A network apparatus for communicating multi-media information

by mobile terminals, comprising:

3 an Internet interface means for establishing an interface with the Internet;

4 a mobile interface means for establishing an interface with a mobile network;

5 a protocol processing means for applying a protocol process to information which

6 is processed by the Internet interface means and the mobile interface means;

7 an image information edit processing means for editing a display characteristic

8 of image information which is extracted by the protocol processing means into image

9 information suitable for a mobile communication with a mobile terminal;

10 a storage unit for storing the image information which is edited by the image

11 information edit processing means; and

12 a storage unit controlling means for controlling to store the image information in

13 the storage unit and to read the stored image information.

1 2. (Amended) A network apparatus according to claim 1, wherein the image

2 information which is transmitted/received in respective interfaces of said Internet

3 interface means, said mobile interface means, said protocol processing means, said image
4 information edit processing means, and said storage unit controlling means is
5 communicated in a cellulated format.

1 *Sub* 3. (Amended) A network apparatus according to claim 1, wherein said mobile
2 *02* interface means includes:

3 a mobile protocol reception processing means for receiving information from the
4 mobile network and then informing the protocol processing means;
5 a mobile protocol transmission processing means for transmitting information
6 from the protocol processing means and information from the storage unit controlling
7 means to the mobile network via a transmission process; and
8 a transmission timing control processing means for informing the storage unit
9 controlling means of a transmission timing so as to transmit the image information
10 continuously every unit time.

1 8. (Amended) A network apparatus according to claim 3, wherein said mobile
2 protocol transmission processing means includes:

3 an asynchronous information processing means for processing asynchronous
4 communication information from the protocol processing means;
5 a synchronous information processing means for processing synchronous image
6 information from the storage unit controlling means;
7 a transmission buffer for transmitting the information to the mobile network; and
8 an information write controlling means for controlling to write the image
9 information from the synchronous information processing means into the transmission

10 buffer prior to communication information from the asynchronous information
11 processing means,

12 whereby the image information processed by the synchronous information
13 processing means is transmitted to the mobile network prior to the communication
14 information so as to allow continuous reproduction of the image information.

Sub B3
1 11. (Amended) A network apparatus for communicating image information
2 between mobile terminals comprising:

3 a mobile interface means for establishing an interface with a mobile network in
4 communication with the mobile network;

5 a protocol processing means for processing protocol of image information from
6 one of the mobile terminals;

7 an image information edit processing means for editing a display characteristic
8 of the image information into edited information suitable for said one of the mobile
9 terminals;

10 a storage unit for storing the edited information; and

11 a storage unit controlling means for controlling to store the edited information
12 into the storage unit and to read stored edited information.

Sub B4
1 13. (Amended) A network apparatus comprising:

2 a mobile interface means for establishing an interface with a mobile network in
3 communication with the mobile network;

4 a protocol processing means for processing protocol of image information from
5 the mobile terminal;

6 an image information conversion processing means for converting the image
7 information into a common image information format;
8 a storage unit for storing converted image information;
9 a storage unit controlling means for controlling to store the image information
10 into the storage unit and to read stored image information; and
11 an image information custom processing means for editing a display
12 characteristic of the image information read from the storage unit into the image
13 information which is suitable for respective mobile terminals;
14 wherein the image information can be communicated between different types of
15 mobile terminals.

14. (Amended) A network apparatus comprising:

2 a mobile interface means for establishing an interface with a mobile network in
3 communication with the mobile network;
4 a protocol processing means for processing protocol of image information from the
5 mobile terminal;
6 a storage unit for storing the image information in a common image information
7 format;
8 a storage unit controlling means for controlling to store the image information into
9 the storage unit and to read stored image information; and
10 an image information custom processing means for editing a display characteristic
11 of the image information read from the storage unit into the image information which is
12 suitable for respective mobile terminals;
13 wherein the image information read from the storage unit are supplied constantly

14 to the mobile network to deliver broadcast.

1 15. (Amended) A network apparatus for communicating multi-media information

2 by mobile terminals, comprising:

3 an Internet interface means for establishing an interface with the Internet;

4 a mobile interface means for establishing an interface with a mobile network;

5 a protocol processing means for processing protocol of information which is
6 processed by the Internet interface means and the mobile interface means;

7 an image information conversion processing means for converting the image
8 information extracted by the protocol processing means into a common image
9 information format;

10 a storage unit for storing the image information converted by the image
11 information conversion processing means;

12 a storage unit controlling means for controlling to store the image information
13 into the storage unit and to read stored image information; and

14 an image information custom processing means for editing and processing a
15 display characteristic of the image information read by the storage unit controlling means
16 to perform a mobile communication.

1 16. (Amended) A network communication method applied to a network
2 apparatus in a network for communicating multi-media information by mobile terminals,
3 comprising the steps of:

4 interface-processing information between the Internet and the network apparatus;
5 interface-processing information between a mobile network and the network

6 apparatus;
7 protocol-processing the information which is interface-processed;
8 edit-processing a display characteristic of the image information which is
9 extracted by protocol process to perform a mobile communication;
10 storing the image information which is subjected to edit process; and
11 controlling storing of the image information and reading of stored image
information.

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1 17. (Amended) A network communication method according to claim 16,
2 wherein the image information which is transmitted/received is communicated in a
3 cellulated format in an interface with the Internet interface means, an interface with the
4 mobile interface means, an interface when the information which is interface-processed
5 is protocol-processed, an interface when the image information extracted via the protocol
6 process is edit-processed, and an interface when the image information is stored and
7 stored image information is read.

1 20. (Amended) A network communication method according to claim 19,
2 wherein the step of interface-processing between the Internet and the network apparatus,
3 includes the steps of:
4 cellulating communication information and the image information which is
5 communicated between the protocol processing means and the Internet, when the
6 information received from the Internet is communicated and transmitted to the protocol
7 processing means and also the information received from the protocol processing means
8 is transmitted to the Internet.

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1 21. (Amended) A network communication method according to claim 16,
2 wherein the step of protocol-processing the information being interface-processed,
3 includes the steps of:

4 determining that the information which are interface-processed correspond to
5 either of communication information and the image information to the mobile network;

6 protocol-processing analyzed image information;

7 processing the image information which is protocol-processed to reproduce
8 original information; and

9 protocol-processing the information supplied to the Internet and the mobile
10 network.

1 22. (Amended) A network communication method according to claim 16,
2 wherein the step of edit-processing the image information which is extracted by protocol
3 process to perform a mobile communication, includes the steps of:

4 storing the image information reproduced by the protocol processing means;

5 managing writing/reading of reproduced image information; and

6 editing read reproduced data into a format which is suitable for mobile
7 communication.

1 23. (Amended) A network communication method according to claim 18,
2 wherein the step of transmitting the information from the protocol processing means and
3 the information from the storage unit controlling means which controls storage of the
4 image information via transmission process to the mobile network, includes the steps of:

5 processing asynchronous communication information from the protocol
6 processing means;
7 processing synchronous image information from the storage unit controlling
8 means;
9 a transmission buffer for transmitting the information to the mobile network;
10 storing processed synchronous image information to be transmitted prior to
11 processed asynchronous communication information; and
12 transmitting the processed synchronous image information to the mobile network;
13 whereby the image information processed by the synchronous information
14 processing means is transmitted to the mobile network prior to the communication
15 information so as to allow continuous reproduction of the image information.



1 24. (Amended) A network communication method according to claim 16,
2 wherein the step of controlling storing of the image information and reading of stored
3 image information, includes the steps of:
4 splitting edited data which is obtained by editing the image information extracted
5 by the protocol process to perform the mobile communication so as to store the edited
6 data;
7 processing storing and reading of edited data by the storage unit managing means;
8 instructing the storage unit managing means to write edited split data; and
9 instructing the storage unit managing means of reading in response to a reading
10 timing instruction issued from the mobile interface means.



26. (Amended) A network communication method in communication with a

2 mobile network, comprising the steps of:
3 interface-processing information between a network apparatus and the mobile
4 network;
5 protocol-processing information which is supplied from the mobile terminal and
6 interface-processed;
7 editing a display characteristic of the image information being protocol-processed
8 into edited information suitable for the mobile terminal;
9 storing the edited information; and
10 controlling storing and reading of the edited information;
11 wherein the image information is communicated between the mobile terminals.

1 *Sub B4*
2 28. (Amended) A network communication method in communication with a
mobile network, comprising the steps of
3 interface-processing information between a network apparatus and the mobile
4 network;
5 protocol-processing information which is supplied from the mobile terminal and
6 interface-processed;
7 converting plural types of image information formats into a common image
8 information format;
9 storing converted image information; and
10 reading stored image information and then editing a display characteristic of the
11 image information into the image information which is suitable for plural types of mobile
12 terminals;
13 wherein the image information can be communicated between different types of

Went 14 mobile terminals.

1 29. (Amended) A network communication method in communication with a
2 mobile network, comprising the steps of:

3 interface-processing information between a network apparatus and the mobile
4 network;

5 protocol-processing information which is supplied from the mobile terminal and
6 interface-processed;

7 providing a reading instruction and a reading timing to read stored image
8 information in a common image information format;

9 editing a display characteristic of read image information into the image
10 information which is suitable for respective mobile terminals; and

11 broadcasting edited image information by supplying the edited information
12 constantly to the mobile network.

1 30. (Amended) A network communication method applied to a network
2 apparatus in a network for communicating multi-media information by mobile terminals,
3 comprising the steps of:

4 interface-processing information between the Internet and the network apparatus;
5 interface-processing information between a mobile network and the network
6 apparatus;

7 protocol-processing the information which is interface-processed;

8 converting the image information extracted by the protocol process into a
9 common image information format;

10 storing the image information which is converted into the common image
11 information format; and

12 reading stored image information and then custom-processing the stored image
13 information.